REPORT RESUMES

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AGRICULTURAL EDUCATION OFFERINGS IN COMMUNITY COLLEGES IN THE UNITED STATES, A RESEARCH REPORT OF A GRADUATE STUDY. RESEARCH SERIES IN AGRICULTURAL EDUCATION. BY- SNEPP, NEIL O. WOODIN, RALPH J. OHIO STATE UNIV., COLUMBUS, COLL. OF AG. HOME EC.

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PRIOR TO PROPOSING A POSTSECONDARY PROGRAM IN AGRICULTURE FOR OHIO COMMUNITY COLLEGES, QUESTIONNAIRES WERE SENT TO 161 COMMUNITY COLLEGES IN 34 STATES TO SECURE RECOMMENDATIONS FROM EXPERIENCED PERSONS AND TO DETERMINE THE STATUS OF EXISTING PROGRAMS. RESPONSES WERE RECEIVED FROM 116. ADDITIONAL DATA WERE COLLECTED FROM 44 STATE DIRECTORS OF VOCATIONAL EDUCATION. AGRICULTURE WAS TAUGHT AT APPROXIMATELY 30 PERCENT OF THE COLLEGES, AND ADULT AGRICULTURAL EDUCATION PROGRAMS WERE PRACTICALLY NONEXISTENT. GUIDELINES FORMULATED TO PROVIDE DIRECTION FOR THE CHIO PROGRAM INCLUDED -- (1) AGRICULTURAL PROGRAMS IN CHIO COMMUNITY COLLEGES SHOULD BE FORMULATED AND COORDINATED ON A STATEWIDE BASIS, (2) AGRICULTURAL PROGRAMS SHOULD BE DEVELOPED FOR TERMINAL-TECHNICAL, TRANSFER, VOCATIONAL, AND ADULT STUDENTS IN THE ORDER LISTED, (3) TRANSFER PROGRAMS SHOULD BE DEVELOPED IN COOPERATION WITH THE SENIOR AGRICULTURAL COLLEGES OF THE STATE, (4) AGRICULTURAL INSTRUCTORS SHOULD HOLD AT LEAST A MASTER'S DEGREE AND HAVE PREVIOUS TEACHING EXPERIENCE, (5) THE MAXIMUM TEACHING LOAD SHOULD BE 16 CLASS HOURS PER WEEK WITH A STUDENT-TEACHER RATIO OF 20 TO 1, (6) THE MINIMUM NUMBER OF FULL-TIME EQUIVALENT STUDENTS ENROLLED SHOULD BE 120, (7) AT LEAST 50 PERCENT OF THE CAPITAL COST FOR AGRICULTURAL PROGRAMS SHOULD BE PROVIDED BY STATE FUNDS, AND (8) OPERATING EXPENSES SHOULD BE SHARED EQUALLY BY STATE AND LOCAL TAXES AND STUDENT TUITION. COPIES OF THE QUESTIONNAIRES ARE INCLUDED. (SL)

A Research Report

of a

Graduate Study



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AGRICULTURAL OFFERINGS IN COMMUNITY COLLEGES IN THE UNITED STATES

The major purposes of the study was to propose an initial postsecondary program in agriculture at the community college level for
Ohio. In order to give direction to the accomplishment of the major
purpose of the study, selected aspects of the agricultural programs
in public junior colleges in the United States were identified,
opinions of persons engaged in agricultural programs at community
colleges regarding the most desirable program in agriculture were
secured, and implications and guidelines for agricultural programs
in community colleges were developed.

A listing of public community colleges with agricultural offerings was compiled using the American Council on Education's American Junior Colleges, 5th edition, as a reference. A stratified sample containing the names of 161 junior colleges in 34 states was drawn. The information sought was collected by means of a mail questionnaire and responses were received from 116 colleges, or 72 per cent of the sample. Additional data concerning the problems of establishing and operating agricultural programs in community colleges was collected from 44 of the 50 state directors of vocational education.

Two types of conclusions were drawn, the first being based upon the existing situation as reported by the respondents, and the second based upon the respondents' opinions of the most desirable agricultural programs in community colleges.



Conclusions

drawn in this study. The first were those based on the situation as it was reported to exist by the respondents. The second set of conclusions were based on the respondent's opinion of what constituted the most desirable agriculture programs in community colleges.

conclusions hased on the existing situation

- 1. Agriculture was listed as a curricular offering by approximately 30 per cent of the public junior colleges.
- 2. The majority of the junior colleges listing agriculture offered pre-agriculture courses consisting of the basic general education courses.
- 3. Transfer and terminal-technical programs were the most common type of agricultural programs, enrolling over 80 per cent of the agricultural students. Adult education programs in agriculture in the junior college were practically non-existent.
- 4. Agricultural enrollments in the majority of the junior colleges with agricultural programs included less than 50 students. Fowever, 25 per cent of the junior colleges had agricultural enrollments of over 100 students and the most comprehensive agricultural programs were found in these colleges.
- 5. The majority of the agricultural students commuted, were night school graduates, and had a farm background.
- 4. Attention was given to recruitment of agricultural students in nearly all of the junior colleges and a variety of methods were used.



- 7. Junior colleges with agricultural programs generally provided the same student services as might be expected on the campus of a four-year college.
- 8. The agricultural faculty and staff generally held advanced degrees, were certified by the local institution or a state agency, and, in most cases, had heavy teaching loads.
- State funds were used to meet capital costs by 90 per cent of the junior colleges with 60 per cent of them receiving more than 50 per cent of capital costs from the state. Operating costs were usually met by a combination of state and local funds and student tuition.
- 10. The majority of the junior colleges had adequate facilities for teaching agriculture including classrooms, laboratories, shops, and institutional farms.
- 11. The officials of the State Department of Vocational Education were available for advice and consultation upon request.
- 12. The major problems in establishing and operating agricultural programs in junior colleges were those of attaining public
 understanding and adequate financial support.

Conclusions based on opinions reported

- 1. Agricultural programs in junior colleges should be comprehensive in that they provide for transfer, terminal-technical, vocational, and adult students.
- 2. Separate classrooms, laboratories, and farm mechanics shops are essential and land, livestock, greenhouses, and forests are desirable for the operation of agricultural programs in junior colleges.
- 3. Agriculture faculty and staff in junior colleges should hold at least a Master's degree along with a teaching certificate.



- 4. The maximum teaching load should be 16 class hours per week with a student-teacher ratio of 20 to 1 or less.
- 5. Agricultural students in junior colleges should be high school graduates or the equivalent.
- 6. State funds should provide for at least 50 per cent of the capital costs and 33 per cent of the operating costs for all aspects of the junior college.

Summary of guidelines for establishing agricultural programs in Ohio community colleges

As a result of this study, a number of guidelines have been formulated to provide direction for the development of agricultural programs in Ohio community colleges. These guidelines were developed on the basis of the data reported, the opinions of the respondents, and other related studies.

- 1. Agriculture should be a part of the offerings in selected community colleges in Ohio.
- 2. Agriculture programs in Ohio community colleges should be formulated and co-ordinated on a state-wide basis.
- 3. Agricultural programs should be developed for terminal-technical, transfer, vocational, and adult students in the order listed.
- 4. Agricultural curricula should be developed on the basis of the needs of agricultural industry and business, the community and the students.
- 5. Advisory committees consisting of leaders in agricultural business should be used to assist in program development, especially in the area of terminal-technical programs.
- 6. Transfer programs should be developed in co-operation with the senior agricultural colleges of the state.



- 7. Agricultural programs in community colleges should be organized as a separate department with a department head or chairman.
- 8. The major responsibility for program development should be delegated to the department chairman.
- 9. The agricultural staff should consist of at least six full-time instructors.
- 10. Agricultural instructors should hold a Master's degree or higher and have had previous teaching experience.
- 11. The maximum teaching load should be 16 class hours per week with a student-teacher ratio of 20 to 1.
- 12. The minimum number of full-time equivalent agricultural students enrolled should be 120.
- 13. Prospective full-time students should be high school graduates or be able to pass an equivalency test. Special students should be able to meet course requirements. In addition, entrance forms, physical examinations, placement tests, and a personal interview should be required.
- 14. Separate agricultural facilities including classrooms, laboratories, shops, and an economical land unit should be available. in one unit. Additional facilities should be provided to meet the needs of special programs.
- 15. The agricultural library should be a part of the main library.
- 16. At least 50 per cent of the capital costs for agricultural programs should be provided for by state funds.
- 17. Operating expenses should be met by state and local taxes, and student tuition equally.



- 18. State funds for operating expenses should be available for adult education programs.
- 19. Additional fees should be charged students residing outside the college district and the state.
- 20. Agricultural departments in community colleges should consult and co-operate with other agricultural education agencies in the state.
- 21. An organized public information program should be instituted and maintained in order to acquire public understanding of the role of agriculture in the community college.

Method of Investigation

The first step was to compile a listing of those public community colleges with agricultural offerings. American Junior Colleges, 5th edition, was used as a reference. The resulting list contained the names of 233 community colleges in 34 states. A stratified sample was drawn containing 153 schools from 26 states. In order to secure data on all the various types of organizations, it was decided to include at least one school from each state. Therefore, eight colleges were added to the list resulting in a total sample of 151 schools in 34 states.

An instrument was designed to collect the desired data. It was reviewed by three persons who had had experience at the state level and outside of Ohio. Suggestions for improvement were made and the instrument was revised. It was the opinion of the reviewers that while the instrument was long, it could be answered in a reasonable length of time.



The instrument was mailed with a covering letter to the director of agriculture at the respective schools. Follow-up letters were mailed to the agriculture departments and the college presidents at two-week intervals. The assistance of the state director of vocational agriculture was solicited to secure the final responses. The total number of responses received was 116, or 72 per cent of the total sample. Of the total responses, 36 completed questionnaires were received.

In order to secure additional background on post secondary agricultural education, the state directors of vocational education were asked for information relative to the comparative enrollment in technical education by the several branches of vocational education.

Names of schools offering post secondary technical education in agriculture were sought as well as opinions concerning problems in establishing and operating technical education programs. Responses were received from 44 states.

Additional Findings of the Study Regarding Offerings of Agriculture in Community Colleges

Sixty per cent of the respondents stated they had no agricultural programs; nine per cent had discontinued agriculture or
became senior colleges; and 31 per cent returned completed questionnaires. It was noted that 22 of the schools reporting no agriculture
offered one or two years of a pre-agriculture curriculum.



NUMBER OF JUNIOR COLLEGES REPORTING WHICH OFFERED AGRI-CULTURAL PROGRAMS ON A FULL-TIME, PART-TIME, AND EVENING BASIS, 1963

Basis	Number of Schools
'ull-Time	33
Part-Time	14
vening	
full-Time Only	15
art-Time Only	1
ull-Time and Part-Time	10
ull-Time and Evening	4
ull-Time, Part-Time, and Evening	4
o Answer	3

Schools which had discontinued agriculture courses had done so because of low enrollment and problems of transferring credit to four-year institutions.

Total enrollment

Considerable variation was reported in the number of full-time students enrolled with the majority of the schools enrolling over 500 full-time students. Approximately 75 per cent of the schools reported part-time enrollments of fewer than 500 students as shown in Table 2.

TABLE 2

1962-63 TOTAL ENROLLMENT REPORTED BY 32 JUNIOR COLLEGES WITH AGRICULTURAL PROGRAMS

Enrollment	Full-Time Number	Part-Time Number
t Almai, av BA-Almaina, underfölligt de grote halle. Pers Livette i Anna Pers Almaine (de grote de grote de gr Livette de grote de g		
500 or under	15	22
501-1,000	10	3
1.001-2.000	3	2
Over 2,000	Ĭį.	2



Agricultural enrollments

The agricultural enrollment was equal to about eight per cent of the total enrollment. Agricultural enrollments of fewer than 50 students were reported by 50 per cent of the respondents, while 27 per cent reported agricultural enrollments of over 100 students. The number of colleges with agricultural enrollments in excess of 100 students were equally divided between local independent junior colleges and schools designated as part of the state university system.

1962-63 AGRICULTURAL ENROLLMENT REPORTED BY 33 JUNIOR COLLEGES WITH AGRICULTURAL PROGRAMS

of Schools	Transfer No.	Terminal Technical No.	Voca- tional	Adult Special
17 7 5 2	21 6 - 1	14 1 2 2	9 2 1	1 1
	17 7 5	17 21 7 6 5	17 21 14 7 6 1 5 - 2	17 21 14 9 7 6 1 2 5 - 2 1 2 1 2 -

Agricultural enrollment was about equally divided between transfer programs and terminal-technical programs as indicated in Table 3. These two programs accounted for over 80 per cent of the agricultural enrollment. Few adults were being served according to the data received.

TABLE 4

1962-63 AGRICULTURAL ENROLLMENT BY TYPE OF PROGRAM AS REPORTED BY 33 JUNIOR COLLEGES WITH AGRICULTURAL PROGRAMS

Program	Number	Per Cent of Total
Transfer Terminal-Technical Tocational Idult, Special	1,234 1,173 446 101	42 40 15 3
otal	2,954	100

The equivalent of one-third of the enrollment in each type of agricultural program completed their programs in 1962. The equivalent of 95 per cent of those transfer students who completed the junior college program transferred to four-year institutions.

TABLE 5

THE NUMBER OF STUDENTS COMPLETING AGRICULTURAL PROGRAMS
IN 1962 BY TYPE OF PROGRAM AS REPORTED BY 31 JUNIOR
COLLEGES

Program	Number
Transfer Terminal-Technical Vocational	425 372 140
Total	937

Expected enrollment trends

It was reported that enrollments were expected to increase in all types of agricultural programs except adult programs during the next five years. Several respondents reported agricultural



enrollments had increased by 15 to 20 per cent per year for the past three years.

Proportion of agricultural students commuting

Approximately 56 per cent of the agricultural students commuted to schools with the remainder living on campus. Approximately 80 per cent of those students commuting traveled less than 20 miles according to Table 6. The majority of the students living on campus were enrolled in state agricultural schools.

TABLE 6

THE PER CENT OF AGRICULTURAL STUDENTS COMMUTING VARIOUS DISTANCES AS REPORTED BY 31 JUNIOR COLLEGES

Distance Traveled	Per Cent Commuting
Under 10 miles	26
10-19 miles	17
20-29 miles	9
30-39 miles	2
40-49 miles	1
Total Commuting	56

Students with farm background

Over three-fourths of the agricultural students enrolled had farm backgrounds. However, some schools reported that less than ten per cent of their agricultural students had a farm background. Students without farm backgrounds were enrolled in all types of agricultural programs.



Means of securing student enrollment

Nearly all schools employed several methods of securing student enrollment. Former and present students were rated as the most effective, followed by the agricultural staff visiting high schools, and high school vocational agriculture teachers. A number of other means were considered to be less effective.

Financial aids for students

Financial aids to agricultural students were available at the majority of colleges in the form of scholarships, loans, and work opportunities.

Scholarships usually were provided by memorial funds, state scholarships, service clubs, and agricultural businesses.

Toans were normally available as either short-term or longterm loans with some National Defense Education Act funds being available.

Most of the work opportunities provided by the college were on the school farm, in the dining halls, or in the library.

A need for additional financial aids for students was indicated.

Admission standards

Full-time agricultural students were required to be high school graduates or pass an equivalency test in the majority of the schools reporting. This procedure was also reported as being the most desirable. Desirable admission standards in the opinion of the respondents are presented in Table 7.



DESIRABLE ADMISSION STANDARDS FOR FULL-TIME
AGRICULTURE STUDENTS IN JUNIOR COLLEGES
IN THE OPINION OF 27 RESPONDENTS

Requirement	Number Reporting
Be a High School Gradus.te	16
Pass an Equivalency Test	8
Graduation or Equivalency Test Not Required	2
Have a Farm Background	1

Special students were normally admitted if they could meet course requirements. It was implied that special students were considered as individual cases. The age of the prospective student was not considered to be an important factor in the majority of cases either in actual practice or in terms of being a desirable practice. It was generally agreed that entrance forms, placement tests and physical examinations should be required for admission. It was also noted that physical examinations were not a requirement in approximately 50 per cent of the schools reporting. Minimum age requirements are shown in Table 8.

TABLE 8

MINIMUM AGE REQUIREMENTS FOR ADMISSION TO AGRICULTURAL PROGRAMS AS REPORTED BY 24 JUNIOR COLLEGES

Minimum Age	Number of Responses
one	9 `.
8	6
7	4
6	5



Faculty and staff

The chairman of the agricultural department was the administrative efficer in charge of agricultural programs in two-thirds of the schools reporting. It was also the opinion of the majority of the respondents that this was the most desirable practice.

Final jurisdiction over agricultural programs in community colleges was normally left to the chief college administrator and this practice was also reported to be the most desirable by the majority of the respondents. There were some respondents, however, who believed that final jurisdiction should be left to a state board or to the state director of vocational education.

Certification standards for agricultural staff members were determined by the local institution in approximately one-half of the schools reporting. In remaining instances, standards were determined by a state agency.

Opinions as to the most desirable practice were nearly identical. In view of the nearly equally divided opinions, the most satisfactory procedure may be for the local institution to determine standards in co-operation with the appropriate state agency.

It was reported that in a majority of the states the state agency was authorized to determine standards.

Academic degree required

Two-thirds of the colleges reporting required faculty members to hold a Master's degree or higher. In actual practice three-fourths of the staff members held advanced degrees. Again opinions as to the most desirable practice were similar to actual practice although four respondents reported all staff members hold a Doctor's degree.



Tables 9, 10, and 11 present additional information on academic requirements and beginning salaries.

TABLE 9

THE ACADEMIC DEGREE REQUIRED FOR AGRICULTURAL INSTRUCTORS IN JUNIOR COLLEGES AS REPORTED

Degree Required	Number Reporting
Bachelor's	10
Master's	23
Doctor's	0
No Set Minimum	1
No Answer	2
lotal	36

TABLE 10

THE MINIMUM ACADEMIC DEGREE RECOMMENDED FOR JUNIOR COLLEGE AGRICULTURE INSTRUCTORS BY 23 RESPONDENTS

Number Responding	%
4	17
15	65 17
	Number Responding 4 15

TABLE 11

THE MINIMUM BEGINNING SALARY REPORTED FOR DIFFERENT DEGREE LEVELS FOR AGRICULTURE INSTRUCTORS IN 28 JUNIOR COLLEGES

Range	B.S.	M.S.	Ph.D.
Upper Limit 3rd Quartile Median Lower Limit	\$6,970 5,500 4,900 4,000	\$6,990 6,000 5,350 4,500	\$12,360 7,200 6,600 5,600
Average	\$5,086	\$5,483	\$ 7,012



Teaching load of faculty

Information on the teaching load of faculty teachers is presented in Tables 12 and 13. The majority of the schools reported the maximum teaching load to be 16 hours per week or less. The average maximum teaching load was nearly 26 hours per week with some schools' respondents teaching 30 hours per week. The majority of the respondents preferred 16 hours or less per week with the average desirable maximum being 16.4 hours per week.

TABLE 12

THE MAXIMUM DESTRABLE TEACHING LOAD FOR JUNIOR COLLEGE AGRICULTURAL INSTRUCTORS IN CLASS HOURS PER WEEK ACCORDING TO 24 RESPONDENTS

Hours Per Week	Number Reporting
14	3
1 <i>5</i> 16	Ź
	5
17	ž
18	3
20 or More	4
lverage	16.4



TABLE 13

OPINION OF 31 RESPONDENTS RELATIVE TO THE MOST DESIRABLE AGRICULTURE STUDENT-TEACHER RATIO IN JUNIOR COLLEGES

Ratio Students: 1 faculty	Number Reporting
15 or Less 16-25 26-35	10 17 4
erage	20.5-1

Student-teacher ratios ranged from less than 15 to 1 up to 50 to 1 with the average reported being 23 to 1. Nearly all of the respondents indicated that the most desirable ratio would be less than 25 to 1 with average reported being 20 to 1.

Financing agricultural programs

There appeared to be some reluctance on the part of the respondents to react to financial questions. The community colleges reporting indicated that capital costs were normally met by a combination of state and local funds with two-thirds of the schools receiving 50 per cent or more capital costs from the state. The state share of the capital costs depended in part upon the state plan for junior colleges. Only three schools were reported as using federal funds for capital costs although seven respondents favored the use of these funds. All but two respondents expressed the opinion that the state should provide at least 50 per cent of the required capital funds.

Operating expenses were met by funds from several sources, the most frequently used being a combination of state and local taxes, and student tuition supplemented by federal funds when available.



The most frequent apportionment in this case was one-third each to state, local taxes, and student tuition.

The above source of operating funds was also considered to be the most desirable although opinion was divided concerning the share that should be met by each. While one group favored a division of one-third of the expenses to each source of revenue, a similar group preferred to divide the costs one-half to state and one-half to local funds with no tuition payments.

Tuition and fees

Fees and tuition charged students varied by section of the country and by type of institutional control. Some variation in fees by type of program was also evidenced. The average annual charge for fees and tuition reported was \$132 for transfer programs and \$175 for terminal-technical programs. This information is presented in Table 14.

TABLE 14

TOTAL ANNUAL FEES AND TUITION REPORTED FOR FULLTIME AGRICULTURAL STUDENTS IN COMMUNITY
COLLEGES BY TYPE OF PROGRAM, 1962-63

Amount \$	Number Reporting		
Amount \$	Transfer	Terminal-Technical	
None	6	11	
Inder 50	4	· 4	
50-100	7	4	
101 - 1 <i>5</i> 0	Ż	4	
151-200	5	4	
Over 200	$\hat{7}$	4	



Non-resident fees for out-of-state students ranged from \$40 to \$600 per year with the most frequent charge being \$300 per year.

It was estimated that the total cost of a year's schooling in the colleges reporting including fees, tuition, room, board, books, and personal expenses, would range from \$1,000 to \$1,250 for a student living on campus.

Schools which offered both transfer and terminal programs charged the same fees for each program. Six schools reported that fees for vocational programs were the same as fees for transfer or terminal programs. Seven additional schools reported that fees for vocational programs varied with the type of program. Fees for these vocational programs were assessed on the basis of the number of credit hours scheduled at a rate of from \$1.00 to \$13.50 per credit hour. Fees for enrollment in adult courses were assessed at a flat rate per credit hour or for the course selected.

Students who completed junior college agricultural programs were charged a graduation fee in two-thirds of the schools reporting. The average fee charged was \$7.55.

<u>Facilities</u>

The respondents were asked to rate the adequacy of the facilities they were using for agricultural instruction. Classrooms were rated as adequate to excellent by approximately 90 per cent of the respondents. Farm mechanics shops, laboratory facilities, and land available were reported to be acceptable to excellent by 75 per cent of the respondents. Approximately 25 per cent of the respondents considered the available livestock and poultry to be inadequate. The majority of those colleges with school forests, greenhouses, and separate agricultural libraries reported them to be adequate.



The colleges that reported all agricultural facilities to be inadequate had agricultural enrollments of less than 50 students while those colleges reporting all agricultural facilities as being acceptable to excellent had agricultural enrollments of above 150 students.

Approximately 25 per cent of the agriculture departments reporting shared some facilities with other departments in the college. Laboratories, shops, classrooms, and audio-visual facilities were the ones most frequently shared with other departments. The greatest problems reported to exist in the sharing of facilities were those of scheduling and of insufficient space in shops and laboratories.

Plans for expanding agricultural facilities during the succeeding three years were reported by 21 colleges with classrooms and laboratories being the most frequently listed.

More than 80 per cent of the respondents reported that separate classrooms, laboratories, and farm mechanics shops for agriculture were essential for conducting agricultural programs as were agricultural references in the main library as shown in Table 15.

Less than 50 per cent of the respondents reported that land, livestock, and poultry, greenhouses, school forests, and separate agricultural libraries were essential for teaching agriculture.



TABLE 15

ESSENTIAL AND DESIRABLE FACILITIES FOR AGRICULTURAL PROGRAMS IN JUNIOR COLLEGES ACCORDING TO 23 RESPONDENTS

	Essential		Desirable	
Facility	Number	Per Cent	Number	Per Cent
Classrooms for Agriculture	21	91	1	4
Laboratories for Agriculture Agriculture Included in	21	91	1	4
Main Library	20	87	1	4
Farm Mechanics Shop Land for Study of Crops	19	83	4	17
and Agronomy	10	44	10	44
Greenhouses All Classes of Livestock	10	44	12	52
and Poultry	9	39	10	44
School Forest	5	22	11	49
Separate Agriculture Library	2	9	16	70

Programs and curricula

A wide variety of agricultural curricula were reported as being available by the respondents. It appeared to the writer that in some cases courses had been reported instead of curricula. Nearly all of the curricula reported were available to transfer, terminal-technical, and vocational students. The catalogues of the junior colleges reporting listed 18 different transfer curricula, and 26 different terminal-technical curricula. This information is shown in Table 16.



TABLE 16

AGRICULTURAL CURRICULA AVAILABLE BY TYPE OF PROGRAM IN
JUNIOR COLLEGES REPORTING FOR THE 1962-63 SCHOOL YEAR

Number of Schools Reporting			
Curricula	Transfer	Terminal-Technical	Vocational
Animal Science	28	23	5
Crop Production	27	17	7
Agronomy	25	1 5	8
Botany	23	8	1
Dairy Production	22	15	6
Zoology	22	7	1
Poultry Production	20	11	5
Horticulture	19	11	3
General Agriculture	15	16	9
Forestry	15	7	1
Veterinary Science	15	3	2
Agricultural Engineering	14	10	4
Farm Shop	12	13	6
Agricultural Business	12	12	3
Conservation	12	6	1
Farm Machinery Science	10	8	4
Wild Life Management	8	4	1
Landscaping	6	9	6
Pomology	5	3	2
Greenhouse Practice	4	4	4
Floriculture	3	7	2
Farm Equipment Sales	5 3 3	.5	1
Agricultural Marketing	3	5	0
Agricultural Chemicals	3	3	0
Dairy Plant Technology	2 2	6	1
Agricultural Service	2	5	1
Entomology	2	O	0
Range Management	1	1	0
Turf Grass Technician	0	1	0
Nursery Manager	0	1	1

Typical transfer programs consisted of 25 to 30 per cent agricultural courses with the remainder being general education courses. A greater variety of agricultural courses were required for terminal-technical programs than for transfer programs. Interdepartmental curricula were noted in the areas of agricultural business, sales and service, with the business courses being taught by instructors in the business department.



Two colleges reported that they offered animal science and agricultural engineering technician programs. These curricula were highly structured, highly specialized, and were nearly devoid of agricultural production courses.

Work experience in the student's major field was a typical requirement, especially in terminal-technical curricula. College credit for work experience was normally granted. Several colleges required work experience regardless of the type of program in which the student was enrolled.

Development of agricultural programs

It was the opinion of over 90 per cent of the respondents that transfer and terminal-technical programs in agriculture should be offered by the junior college. Approximately 80 per cent of the respondents indicated that adult programs in agriculture should be offered while 68 per cent reported that vocational programs should be offered.

The respondents further expressed the opinion that transfer programs should be developed first followed by terminal-technical, vocational, and adult programs in that order. Only two colleges reported that they were operating adult programs in agriculture.

Table 17 indicates the number of years that four different types of agricultural programs had been offered in community colleges. Tables 18 and 19 provide additional information on agricultural programs in these institutions.



NUMBER OF YEARS VARIOUS TYPES OF AGRICULTURAL PROGRAMS
HAD BEEN OFFERED IN COMMUNITY COLLEGES

Number of		Number of Schools	Reporting	
Years	Transfer	Terminal-Technical	Vocational	Adult
Under 10	4	6	4	2
10-20	17	11	?	7
21-30	4	7	2	1
Over 30	6	3	3	0
Average Number of Years	20	19	18	14

TABLE 18

THE TYPE OF AGRICULTURAL PROGRAMS THAT SHOULD BE OFFERED IN COMMUNITY COLLEGES IN THE OPINION OF 36 RESPONDENTS

Type of Program	Should be Offered	Should Not be Offered	No Answer
Transfer	34	0	2
Terminal-Technical	32	1	3
Vocational	23	6	7
Adult	27	1	8

TABLE 19

MAJOR FACTORS WHICH DETERMINED WHETHER A COURSE OF STUDY
IN AGRICULTURE SHOULD BE ADDED, DROPPED, OR REVISED
IN JUNIOR COLLEGES REPORTING, 1963

Factor	Times Listed
Needs of Student, Community, or Industry	16
Demand	9
Enrollment	10
Student Interest Requirements of Four-Year Institutions	7 6



TABLE 19 (Continued)

Factor	Times Listed
Staff Available Facilities Available Cost of Program Place in Approved Curricula	5 4 3 1

Responsibility for program development

The responsibility for the development, revision, and expansion of the agricultural program was normally vested in the head of the agricultural department. A number of other persons and agencies were also reported as assisting in this work. The use of advisory committees was a common practice, especially in the development of terminal-technical programs.

The factors most frequently reported as determining whether or not a program should be added or dropped were those of community, industry, and student need. The availability of staff and facilities were listed as factors which determined the ability of the college to operate new agricultural programs.

Problems in establishing and operating agricultural programs in junior colleges

Respondents in junior colleges reported that the greatest problems in establishing agricultural programs in junior colleges were those of securing suitable facilities, adequate financial support, student enrollment, planning for expansion of the program, and attaining public understanding in the order listed as shown in Table 20.



The State Department of Vocational Education reported that procuring adequate financial support, attaining public understanding, securing qualified faculty, suitable facilities, and student enrollment presented the greatest problems in establishing agricultural programs in the order listed. State Directors of Vocational Education generally rated these problems as being more difficult than did the junior college respondents.

DEGREE OF DIFFICULTY OF PROBLEMS ENCOUNTERED IN ESTABLISHING AGRICULTURAL PROGRAMS IN COMMUNITY COLLEGES AS REPORTED BY 36 COLLEGE PRACTITIONERS, 1963

Problem	Average Rating
Securing Suitable Facilities	2.66
Procuring Adequate Financial Support	2.53
Securing Student Enrollment	2.30
Plans for Expansion of Program	2.25
Acquiring Public Understanding	2.13
Securing Qualified Faculty	1.97
Standardization of Curriculum Titles	
and Content Within the State	1.91
Developing Appropriate Curriculum	1.85
Co-ordination of Programs Within the State	1.82
Maintaining High Quality of Instruction	1.46
Obtaining Instructional Materials	1.41
Placement of Graduates	1.24
Determining Admission Standards for Students	1.09
Certification of Staff	.87
Awarding of Degrees and Certificates	.87

The junior college respondents reported that procuring adequate financial support, maintaining suitable facilities, student enrollment, plans for expanding the program, and maintaining public understanding were the most difficult problems in operating agricultural programs in junior colleges in that order. Their responses are presented in Table 21.



DEGREE OF DIFFICULTY PRESENTED BY PROBLEMS IN OPERATING
AGRICULTURAL PROGRAMS IN JUNIOR COLLEGES BY
36 COLLEGE PRACTITIONERS, 1963

Problem	Average Rating
Procuring Adequate Financial Support	2,26
Maintaining Suitable Facilities	2.22
Maintaining Student Enrollment	2.09
Plans for Expansion of the Program	2.03
Maintaining Public Understanding	1.94
Developing Appropriate Curriculum	1.58
Obtaining Instructional Materials	1.57
Co-ordination of Programs Within the State	1.55
Securing Qualified Faculty	1,50
Standardization of Curriculum Titles and	
Content Within the State	1.48
The Same Courses Being Taken by Students of	
all These Types of Programs	1.48
Effective Use of Facilities	1 .3 8
Placement of Graduates	1.34
Maintaining High Quality Instruction	1.28
Transferring Credit to Four-Year Institutions	1.00
Determining Admission Standards for Students	1.00
Certification of Staff	.85
Awarding of Degrees and Certificates	.61

The data presented earlier in Table 18 indicated that transfer programs should be developed first in new junior colleges, followed by terminal-technical, vocational, and adult programs. The closeness of the ratings, however, suggested that it would be justifiable to develop terminal-technical programs prior to the development of transfer programs in some instances.

Related Studies

Carter made a comprehensive study of agricultural programs in junior colleges in the United States in 1954. Useable returns were



John Thomas Carter, "A Study of Agricultural Programs in the Junior Colleges of the United States with Proposals for Further Development," Ph.D. dissertation, The University of Illinois, 1954.

received from 70 of the 140 schools who had indicated that they offered agricultural courses or programs of college grade. As a result of this study. Carter arrived at the following conclusions:

- 1. The junior college is in a position to fill a gap in the present programs of instruction in agriculture.
- 2. In general the junior college is doing a satisfactory job of preparing agricultural students for transfer to a senior college.
- 3. Most junior college teachers of agriculture are, relatively speaking, well prepared for their work.
- 4. Many junior colleges do not maintain facilities needed for laboratory instruction.
- 5. Laboratory facilities for teaching introductory courses should be provided by the junior college without excessive cost.
- 6. To be adequate, a junior college program of agricultural instruction must provide for the needs of both terminal and university preparatory students.
- 7. It is extremely difficult for a department of agriculture to be effective when staffed by only one teacher.
- 8. Junior colleges have hardly scratched the surface in providing instruction in agriculture for adults.
- 9. There is at present no generally accepted set of criteria that junior colleges may use in setting up departments of agriculture or evaluating the laboratory facilities, instructional methods and other phases of their programs.

Carter also concluded that a number of problems of relationships exist between the junior colleges and the land grant colleges regarding standards and transfer of credit to the land grant colleges. Points four, five, and seven above substantiate the finding of Phillips.



These studies suggest that Ohio educators should bear these points in mind in order to prevent the same weaknesses from appearing in any programs which may be developed in Ohio.

Carter recommended that administrators and teachers of agriculture in junior colleges consider ways of serving the adult population in their communities. A further recommendation was for additional studies to determine the types of non-farming agricultural occupations that will furnish opportunity for employment and the types of training needed for them. Brum's study should provide this information for Ohio.²

Clyburn developed a set of evaluative criteria for agricultural programs in the junior college in 1953. He drew on the literature for a list of functions which were restated in terms of principles.

These, with evaluative questions, were submitted to a jury, revised, and given a trial application. The final draft contained 18 criteria in nine areas. The areas included were as follows: (1) programs of instruction, (2) instructional plant and facilities, (3) library facilities and services, (4) departmental organization and staff, (5) supervision of instructors, (6) administration, (7) articulation, (8) community service, and (9) public relations. These criteria were printed and distributed to the 110 schools with agricultural offerings.



²Herbert B. Brum, "Opportunities for Agricultural Occupations in Ohio," Ph.D. dissertation study in progress, The Ohio State University, 1963.

³Hoyd E. Clyburn, "Criteria for Evaluating Programs of Agriculture in the Community College," Ph.D. dissertation, Louisiana State University, 1953.

Recommendations were made to the American Association of Junior Colleges for further application and revision of the criteria. These criteria will provide additional guides to planning new programs, plant and facilities for agricultural programs in community colleges in Ohio as they develop.

A survey of the standards in selected areas of the junior college was conducted by the Committee on Standards for Agricultural Education of the National Agricultural College Teachers Association.

Elgin Hall, Chairman, Agriculture Division, Orange Coast College,
California, visited 42 junior colleges, 32 land grant universities,
and 36 four-year colleges. A mail questionnaire was also used.

Three major areas were considered as follows: 1. Standards and
qualifications for personnel, 2. Standards for instruction, and
3. Standards for facilities. In evaluating the instructional staff,
Hall propounded the following questions to junior college administrators:

- 1. If you were hiring new agricultural instructors, would you require them to be graduates of a land grant university?
- 2. From where were your present agriculture instructors graduated?
- 3. What degree level would you require of new agricultural instructors?
- 4. Would you permit them to teach in other than their major field?
- 5. Would you require instructors to take additional training in their field periodically?

There was no definite majority opinion concerning the necessity of instructors being graduates of a land grant university. Graduates of four-year agricultural colleges were equally acceptable by



college administrators. Only two respondents, however, stated they would hire the instructor regardless of school if he seemed qualified.

It was also revealed that 62 per cent of the agricultural instructors then on the staff had in fact graduated from land grant universities and 30 per cent from four-year agricultural colleges.

Two-thirds of the schools required a Master's degree, the remaining one-third declared a Bachelor's degree to be sufficient. Two-thirds of the respondents required teaching in the major field only, while all the remaining respondents except two would permit teaching in a minor field. These two respondents would permit agricultural instructors to teach without either a major or minor. Instructors should be required to take additional training to maintain their proficiency according to 80 per cent of the respondents. The above situations applied regardless of whether the instructor was teaching transfer or terminal students.

In terms of instructional programs, over 85 per cent taught both terminal and transfer students in the same courses. There were a few cases of separate classes for each group. Textbooks were required by 60 per cent for each type of course. Only 30 per cent required a three-hour laboratory period for each course taught. All respondents indicated complete laboratory facilities should be available although a few were not so equipped. The majority of respondents indicated business courses in an agricultural business program should be taught by the business department.

A number of facilities were surveyed with more divided opinions given than in the preceding areas. The majority preferred the agriculture library in the main library. An acceptable size of the



agriculture library was approximately 600 volumes although eight schools actually had less than 200 volumes.

Opinion as to the size of a school farm was varied. Nearly 25 per cent said it was unnecessary. The majority favored farms between ten acres and 200 acres in size. The number and type of livestock on the college farm depended upon the majors offered. The majority indicated the following:

Dairy - 25-50 cows, milk processing plant Animal Science - Beef, sheep, and swine Poultry - Complete operation from brooding through the laying cycle

Hall concluded that junior college standards in these areas were very high. The respondents were assumed to be representative of junior colleges.

Clark in Michigan and Rohr in Wisconsin have also completed studies which tend to reinforce the preceding in terms of the need for additional training in agricultural business. In addition, a North Carolina study by Blackmon and Dawson points up the need for increased training of adults presently employed in non-farm agricultural occupations.



⁴Raymond M. Clark, Need for Training for Non-Farm Agricultural Business (East Lansing: Michigan State University, 1959).

⁵Charles G. Rohr, "An Investigation of the Training Required by Workers in Agricultural Business in Waukesha, Wisconsin," Master's thesis, University of Wisconsin, 1960.

⁶John H. Blackmon and Cleburn G. Dawson, <u>Need for Training</u> for <u>Non-Farm Agricultural Occupations</u> (Raleigh: North Carolina Department of Public Instruction, 1961).

A recent study in Illinois⁷ recommends a state-wide system of junior colleges as the most promising method for organizing vocational and technical education programs beyond the high school. It states that the curricula should be organized where the students are rather than in relationship to employment, existing public schools, or senior institutions. This is listed as the most important criterion of organization.

A changing view of the nature of the junior college is later indicated by this statement:

The emphasis of recent years on the community college appears to be losing its edge. The reason is simple. The small local institution can no longer compete in a complex world. The junior colleges of the future must have a comprehensive program to serve a wide distribution of economic interests and purposes, hence it must serve a large population, one that usually does not fit the traditional meaning of a community as it has been in the past. The community can no longer be interpreted narrowly as a basis for determining the nature of the program or the method of financial support.

All of the studies reviewed in this chapter have implications for developing agricultural programs in community colleges in Ohio. The states reporting—California, Illinois, Michigan, North Carolina, Wisconsin—are similar in many ways. They have had experience in operating community colleges. It appears logical, therefore, that some of the findings, conclusions, and recommendations in these studies may well apply to the development of a similar program in Ohio.



William P. McClure et al., <u>Vocational and Technical Education</u> in <u>Illinois</u> (Urbana: College of Education, The University of Illinois, 1960), p. 81.

Elbid., p. 106.

The major areas that have been studied which apply to Ohio include agricultural business, agricultural sales and service, horticulture and nursery management. A part of the North Carolina study pertaining to forestry workers might also be applicable to the forest industries of Ohio. 9



⁹ John H. Elackmon and Cleburn G. Dawson, loc. cit.

APPENDIXES



APPENDIX A

LIST OF COLLEGES SURVEYED

Alaska

Anchorage Community College

Arizona

Eastern Arizona Junior College

Arkansas

Arkansas State College - Beebe Branch

California

Antelope Valley College Bakersfield College Cerritos College City College of San Francisco College of San Mateo College of the Sequoias Compton College El Camino College Fullerton Junior College Lassen Junior College Long Beach City College Los Angeles Pierce College Modesto Junior College Mount San Antonio College Napa Junior College Oakland City College Orange Coast College Palo Verde College Pasadena City College Porterville College Reedley College Riverside City College Sacramento City College San Bernardino Valley College Santa Ana College Santa Monica City College Santa Rosa Junior College Sierra Junior College Taft College Vallejo Junior College Ventura College

Colorado

Fort Lewis A. and M. College Mesa College Northeastern Junior College Otero County Junior College Trinidad State Junior College



Florida

Central Florida Junior College Chivola Junior College Palm Beach Junior College St. Johns River Junior College

Georgia

Abraham Baldwin Agricultural College Columbus College Georgia Southwestern College Middle Georgia College South Georgia College

Idaho

Poise Junior College

Illinois

Centralia Township Junior College
Chicago City Junior College:
Amundsen Branch
Crane Branch
Woodrow Wilson Branch
Wright Branch
Elgin Community College
Joliet Junior College
Lyons Township Junior College
Thornton Junior College

Iowa

Eurlington College Clarinda Junior College Eagle Grove Junior College Ellsworth Junior College Esterville Junior College Muscatine Junior College Webster City Junior College

Kansas

Arkansas City Junior College Coffeyville College El Dorado Junior College Garden City Junior College Highland Junior College Hutchinson Junior College Independence Community College Pratt Junior College

Kentucky

Paducah Junior College

Maine

University of Maine in Portland

Maryland

Hagerstown Junior College



Massachusetts

Michigan

Alpena Community College Community College and Technical Institute (Benton Harbor) Grand Rapids Junior College Jackson Junior College Port Huron Junior College

Minnesota

Austin Junior College
Brainerd Junior College
Eveleth Junior College
Hibbing Junior College
Rochester Junior College
Worthington Junior College

Mississippi

Copiah-Lincoln Junior College
East Central Junior College
Hinds Junior College
Itawamba Junior College
Jones County Junior College
Northeast Mississippi Junior College
Northwest Mississippi Junior College
Pearl River Junior College
Southwest Mississippi Junior College

Missouri

Joplin Junior College Junior College of Flat River Moberly Junior College Trenton Junior College

Montana

Custer County Junior College

<u>Nebraska</u>

Norfolk Junior College Scottsbluff College

New Mexico

New Mexico Military Institute

New York

State University of New York Agricultural and Technical Institute at:

Alfred

Canton Cobleskill Delhi Morrisville

North Carolina

Asheville-Biltmore College

North Dakota

North Dakota School of Forestry



Oklahoma

Cameron State Agricultural College Connors State Agricultural College Eastern Oklahoma A. and M. College Murray State Agricultural College Northeastern Oklahoma A. and M. College North Oklahoma Junior College Oklahoma Military Academy

Oregon

Central Oregon College

Pennsylvania

Pennsylvania State University Commonwealth Campus System Dubois Campus Hazelton Campus Pottsville Campus

Texas

Arlington State College Blinn College Frank Phillips College Howard County Junior College Kilgore College Laredo Junior College Odessa College Panola College Paris Junior College Ranger College San Antonio College South Plains College Southwest Texas Junior College Tarleton State College Temple Junior College Texas Southmost College Tyler District College The Victoria College Wharton County Junior College

Utah

Snow College

Virginia

Danville Branch of Virginia Polytechnic Institute

Washington

Centralia Junior College
Clark College
Columbia Basin College
Everett Junior College
Lower Columbia Junior College
Olympic College
Skagit Valley College
Wenatchee Valley College
Yakima Valley Junior College



West Virginia

Potomac State College of West Virginia University

Wisconsin

University of Wisconsin Extension Centers at:

Manitowoc

Marathon County

Sheboygan

Wyoming

Goshen County Community College Northwest Community College Sheridan College



APPENDIX B

Return by February 25, 1963, to: Neil O. Snepp Department of Agricultural Education Agricultural Administration Building 2120 Fyffe Road Ohio State University Columbus 10, Ohio

DIRECTIONS

1. Name of State____

This questionnaire is designed to obtain basic information concerning post-high school terminal training programs in agricultural technology. Terminal training refers to instruction of college caliber of at least one and usually two years duration. All respondents please answer questions 1-7 inclusive. If no programs in agricultural technology are in operation, omit 8-10.

•	es of i				on in your
	H.Ec.	T&I	Ag.	D.E.	Business
University branches?		~			
Public community / junior colleges?	***************************************				
Private junior colleges?	-				
Technical institutes?	•				
Others (Please specify)					
What was the total number of programs in 1962?	of grad	uates	of ag	ricultu	ral technol
Do you plan to add terminal in the next 1 year?					
If yes, do you expect that community colleges? uninstitutes? others?	niversi	ty bra	nches	?	technical



- 7. Would you please enclose the following items with your return:
 - a. A list of the names and addresses of the institutions in your state offering terminal programs in agricultural technology.
 - b. A copy of the legislation, written policies, and regulations affecting the establishing and operation of such programs in your state.
 - c. The certification requirements for instructional staff at the post-high school level.
- 8. Please check the relationships that exist between your office and the institutions offering these agricultural technology programs:

a.	Available upon request for advice and consultation
b.	Give approval of the initial program
c.	Responsible for inspection and accreditation
d.	Responsible for supervision and program
	Coordinate all programs in the state
f.	Certification of instructional staff
g.	Administer financial support of programs
h.	Other (Please specify)

9. Listed below are a number of problems which may be encountered in establishing terminal programs in agricultural technology. Please check each item as to the degree of difficulty it presents in your opinion.

Great

Considerable

a.	Procuring	adequate
	financial	

- b. Securing suitable facilities
- c. Securing qualified faculty
- d. Certification of staff
- e. Determining admission standards for students
- f. Securing student enrollment
- g. Acquiring public understanding
- h. Developing appropriate curriculum
- i. Standardization of curriculum titles and content within the state

		·		
_				
	•		·	
-				
_				

Some

Less

<u>None</u>



			Great	erable	Some	Less	None
	j.	Coordination of pro- grams within the state					
	k.	Effective use of facilities					
	1.	Maintaining high quality of instruction					
	m.	Obtaining instructional materials	A (
	n.	Awarding of degrees and certificates					
	٥.	Placement of graduates	**************************************				
	p.	Plans for expansion of the program					
10.	cul	ase check the below listed : ty they present in operating tural technology after it ha	g a ter	minal pro	gram o	of di f agri	ffi-
			Great	Consid- erable	Some	Less	None
	a.	Procuring adequate financial support	Great		Some	Less	None
	a. b.	financial support	Great		Some	Less	None
		financial support Maintaining suitable facilities	Great		Some	Less	None
	b.	financial support Maintaining suitable facilities Securing qualified faculty	Great		Some	Less	None
	b. c.	financial support Maintaining suitable facilities Securing qualified faculty Certification of staff	Great		Some	Less	None
	b. c.	Maintaining suitable facilities Securing qualified faculty Certification of staff Determining admission standards for students	Great		Some	Less	None
	b. c. d.	Maintaining suitable facilities Securing qualified faculty Certification of staff Determining admission standards for students Maintaining student	Great		Some	Less	None



i.	Standardization of curriculum titles and content within the state

- j. Coordination of programs within the state
- k. Effective use of facilities
- 1. Maintaining high quality of instruction
- m. Obtaining instructional materials
- n. Awarding of degrees and certificates
- o. Placement of graduates
- p. Plans for expansion of the program

				-
Great	Consid- erable	Some	Less	None
***************************************			-	
	,			
			·	
			-	



APPENDIX C

QUESTIONNAIRE CONCERNING AGRICULTURAL PROGRAMS IN COMMUNITY COLLEGES

DIRECTIONS AND DEFINITIONS

The purpose of this questionnaire is to: (1) Determine the status of selected aspects of post secondary agricultural programs in community colleges, and (2) Secure opinions from experienced persons in this field as a basis for recommending improvements in agricultural programs in community colleges.

In order to avoid confusion over terminology, the following broad definitions are given:

Agricultural programs - Any course of study in agricultural production, related businesses, service, sales, marketing, and engineering. Includes forestry, conservation, horticulture, veterinary science and related areas.

Pre-Professional training - Preparation for advanced study at the college level, equivalent to the first two years of college training, at the completion of which the student plans to transfer to a four-year institution to complete the requirements for a Bachelor's degree. (This has also been referred to as transfer and college parallel programs.)

Semi-Professional training - College caliber instruction of at least one and usually two years duration. Designed to provide training at a level above the craftsman but below the Bachelor's degree. Normally the student plans to enter employment upon the completion of two years training. This has also been referred to as terminal or technical training.

<u>Vocational training</u> - As used here refers to post-high school instruction of a year or less, designed to train for a particular job or skill. Usually contains little or no theory and no general education.

Adult. Special - Classes organized to meet special needs and/or interests of adults, who are normally already employed. length of course varies, usually held in the evening. May be credit or non-credit.

The information reported will be treated in a confidential manner, and reported only in the summaries. It is not necessary to sign the questionnaire; however, we would like to know the name of the school, state, and title of the respondent.

Thank you very much for your cooperation in this endeavor.

Return

Neil O. Snepp Department of Agricultural Education 2120 Fyffe Road Ohio State University Columbus 10, Ohio



Name	of	Institution			_State	ستريين بستاستة بالبري		وحدادين
Admi univ	nisi ersi	tering Agency (e.g., local bity, etc.)	oard,	state	board,	branch	of	stat
Offi	cia]	title of respondent						
A	ENR	LLMENT AND STUDENT POPULATI	<u>KOJ</u>					
,	1.	The total number of student institution is as follows: Part time - Men Women	Full	rently time •	enrolle - Men	ed in th _ Women_	is	.
;	2.	The current (1962-63) enrol as follows: Pre-profession Vocational, Other	lment	in agı _, Semi	ricultu: i-profes	ral prop ssional	;ran	ıs is —'
•	3.	The number of out-of-state	studer	nts in	agricul	Lture is	,	
1	4.	The number of foreign stude	ents in	n agric	ulture	is		
:	5•	The number of students comp 1962 was: Pre-professional Vocational	oletin _ë	g agric Semi-p	cultural professi	l progra ional	.ms	in
(5.	How many of the students entransferred to a four-year	rolled instit	i in ag tution i	ricult	are in 1	962	<u>.</u>
7	7•	Please indicate the trends grams that you expect in yo	in en ur sch	rollmen nool in	it in ag	gricultu ext five	ral ye	. pro ars.
			MORE	SAME	LESS			
		Pre-professional			 			
		Semi-professional	-					
		Vocational						
		Other						
ć		Approximately what per cent cummute the following dista 10-19 miles, 20-29 mil 40-49 miles, 50 or mor	nces: es	10 mil	es or l 9 miles	.ess		
9	9. 1	What per cent of the agricu (dormitory, private fratern	ltural ity, s	stude	nts liv	e on ca	mpu	s
10).	Approximately what per cent have a farm background?	of th	e stud	ents in	agricu	ltu	re



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B.

ecuring enroll	LNT				
 Please indicates of those metagricultural 	mods which	. you use 🕁	the degree (o secure en	of effecti rollment i	ivene in
	Most Effective	Very Effective	Moderately Effective	little Effec- tiveness	Non
gh school cational riculture				22.0.000	NOM
achers gh school idance					
rsonnel llege guid- ce personnel	····			Markan Linux	
llege staff mbers visit- g high schools					
reer days at e college inted					
terials sent high schools ricultural					
tension Agents esent students mer students					**************************************
ner (Please ecify)					**************************************



C.

D. ADMISSION STANDARDS

This section is designed to secure information concerning admission requirements. We are asking for a threefold reaction. In the first column, indicate by the appropriate letter what is required by your state regulations. In the second column indicate the current practice of your institution and in the last column what you personally think would be the most desirable or ideal. If more than one letter is required to complete the answer, so indicate in the proper column. If the statement does not apply, indicate by use of the letters N.A.

		State	Your	
		Regulation	Practice	Ideal
1.	To attend agriculture programs full time, students must be (a) a high school graduate, (b) able to pass an equivalency test if not a high school graduate, (c) admitted regardless of completion of high school, (d) have a farm background, (e)			
2.	Short term or special students (a) have no admission requirements, (b) are admitted if they meet course requirements, (c)			
3•	Students must be at least (a) 16, (b) 17, (c) 18 years of ago and capable of profiting from the instruction offered.			
4.	Students living in another district (a) can attend if the home district does not provide the desire instruction, (b) can require the home district to pay the tuition, (c)			
5•	Out-of-state students are (a) admitted if quota per- mits, (b) charged out-of- state fees, (c) not per- mitted to attend, (d)			



		State Regulation	Practice	Ideal
6.	Prospective students are required to complete (a) an application form, (b) an entrance examination, (c) health certificate, (d)		•	
7 •	Additional comments:			
				······································

E. FACULTY AND STAFF

This section is designed to secure information concerning the requirements for faculty and staff. In the first column use the appropriate letter or letters (a, b, c) to indicate what is required by your state regulations. In the second column indicate the present practice of your school and in the third your personal opinion as to the ideal or most desirable practice. If the statement does not apply, use the letters N.A. in the appropriate column. Any additional comments will be appreciated.

		State Regulation	Your Practice	Ideal
1.	The programs in agriculture are headed by (a) Dean, (b) Principal, (c) Director, (d) Department Head, (e)			
2.	The certification standards for teaching agriculture is community colleges are determined by (a) State Superintendent of Public Instruction, (b) State Board of Education, (c) State Director of Vocational Education, (d) Officials of your institution, (e)	n e r-		



		State Regulation	Your Practice	Ideal
3.	Students must be at least (a) 16, (b) 17, (c) 18 years of age and capable of profiting from the instruction offered.			
4.	Students living in another district (a) can attend if the home district does not provide the desired instruction, (b) can require the home district to pay the tuition, (c)			
5.	Out-of-state students are (a) admitted if quota permits, (b) charged out-of-state fees, (c) not permitted to attend.			
6.	Prospective students are required to complete (a) an application form, (b) an entrance examination, (c) health certificate, (d)			
	Additional comments:			

E. FACULTY AND STAFF

This section is designed to secure information concerning the requirements for faculty and staff. In the first column use the appropriate letter or letters (a, b, c) to indicate what is required by your state regulations. In the second column indicate the present practice of your school and in the third your personal opinion as to the ideal or most desirable practice. If the statement does not apply, use the letters N.A. in the appropriate column. Any additional comments will be appreciated.



		مرتب والمنافقة		
		State	Your	
		Regulation	Practice	Ideal
		WOENTO OTOM	Tractice	TREAT
1.	The programs in agri- culture are headed by (a) Dean, (b) Principal, (c) Director, (d) Depart- ment Head, (e)			
2.	The certification standards for teaching agriculture in community colleges are determined by (a) State Superintendent of Public Instruction, (b) State Board of Education, (c) State Director of Vocational Education, (d) Officials of your institution, (e)			
3.	The minimum qualifications for instructional staff in agriculture are (a) Bachelor's degree, (b) Master's degree, (c) Doctor's degree, (d) valid teaching certificate, (e) suitable occupational experience where applicable, (f)			
4.	Teachers in a community college are required to have (a) a regular certificate, (b) special certificate, (c) no certificate, (d)	V _e m		
5•	The executive who has final jurisdiction over agricultural programs is (a) district superintendent, (b) college or university administrator, (c) state director of vocational education, (d)			



		State Regulation	Your Practice	Ideal
6.	The maximum teaching load or equivalent for agriculture instructors in hours per week is (a) 14, (b) 15, (c) 16, (d) 17, (e) 18, (f)			
7•	Instructors employed full men and women. Part men and women.			
8.	The degree held by the fu Master's, and Eachel		are Doctor	's,
9.	The degrees held by the p	art-time stafi s%.	are Doctor	r's%,
0.	What is the minimum begin instructor with the followaster's, Doctor's	wing degrees:		
1.	What is the current studeWhat do you consid teacher ratio?		-	
2.	Additional comments:			

F. FINANCES

The purpose of this section is to secure information concerning methods of financing agricultural programs in community colleges. Please indicate in the first column what is required by your state regulations by use of the appropriate letter. In the second column, indicate the practice of your institution, and in the last column indicate your personal opinion as to the most desirable or ideal practice. If the statement does not apply, use the letters N.A. in the appropriate column.



		State	Your	
		Regulation	Practice	Ideal
		IOEATA OTOIL		
1.	Funds for capital ex- penditures in agri- culture are provided by (a) State funds, (b) Federal funds, (c) local institution district, (d) gifts, grants, be- quests and devices, (e) self-liquidating bonds, (f)			
2.	State financial aid of capital costs is (a) 100, (b) 75, (c) 50, (d) 33 1/3 25, (f) per cent.	•		
3.	The power to submit taxes for capital costs to a vote of the people of the district lies with (a) State governing agency, (b) governing board of the institution district, (c)			
4.	The governing board of a community college district has the power to levy a tax of (a) 1/4, (b) 1/2, (c) 3/4, (d) 1, (e) mill per dollar of assessed valuation.			
5• <i>·</i>	Operating costs are met by (a) combination of state (and federal when available) local taxes and student tuition, (b) State and Federal funds, (c) student tuition and state funds, (d) local taxes and tuition, (e) local taxes only, (f) state funds only, (g)			



		State Regulation	Practice	Idea	1
6.	State funds for operating costs are provided through (a) special appropriations, (b) a foundation program (ADA or ADM) similar to that for elementary or secondary education, (c)				
7•	Operating costs are apportioned (a) 1/3 each to state, local and tuition, (b) 1/2 each to state and local, (c) 3/4 state, 1/4 local, (d)				
8.	Personal books and supplies are furnished the student (a) free, (b) at his expense, (c) at cost, (d)				
9.	The operating budget for	agricultural	programs for	r 1962	 2-63 is
10.	The capital improvements 1962-63 is	budget for ag	ricultural p	rogra	ms for
11.	Please list the approxim dents in the various typ				stu-
		Pre Professional	Semi Profession	nal V	ocational
	Resident tuition Non-resident tuition General fees				
	Iaboratory fees Graduation fees Room and board Others (Please specify)				



G.	FACILITIES							
	nection facilit	with yo lies that those fac	ur agr you d	icultural	progr tial i	ams. In n colum	n Part I n 1. Ch	ing in con- I check those eck column not
				PART I	· ************************************		PAR	TII
		Excel- lent	Very Good	Accept- able	Fair		Essen- tial	Desirable But Not Essential
agr	ssrooms for iculture mechanics							
shops Laboratories for agriculture								
stu	d for the dy of crops agronomy							
for All	est classes of estock and							
poultry Greenhouses Separate agri- culture library								
Agr clu	iculture inded in main rary							
Oth (sp	ers ecify) ————							
******				 	ļ			
-	2. What fa	acilities	, if a	iny, do yo	ou shar	e with	other de	epartments?
		jor probl	lem? Ye	acilities				nts present t the



4.	The maximum number of students that can be accommodated in agriculture with the present facilities and teaching staff is
5•	Please describe brasfly any plans the college has for expanding the agricultural facilities in the next three years.

H. PROGRAMS AND CURRICULUMS

The purpose of this section is to identify the programs and curriculums being offered and to secure opinions regarding the future development of programs in agriculture.

1. Please indicate by checking the list below the curriculums presently being offered and the level at which they are offered. Make any additions as needed. Refer to cover sheet for definitions. Curriculum refers to courses of study designed to develop competencies in a given area.

_	Pre	Semi	
Curriculum	Professional	Professional	Vocationa
General agricultural production		1	
Crop production			
Horticulture			
Floriculture		All the contract of the contra	ļ
Pomology			
Greenhouse practice			
Landscaping			
Animal science			
Dairy production			
Poultry production			
Agronomy			
Agricultural engineering			
arm shop			
Farm machinery service			
arm equipment sales	-		
gricultural business			
Agricultural marketing			
Agricultural chemicals		**************************************	
gricultural service			
Dairy plant technology			
ood processing technology			
Botany	-		اراب معاصد بالهجارات دربسات
Coology			
eterinary science			
orestry			
onservation			
ildlife management			
thers (Please specify)			
The state of the s			

2,	How many years have you cultural programs in you Semi-professional	our school? Pre	-nrafessione	מ.
3.	Please indicate the typy your opinion, should or college by checking the	r should not be a	offered in a	s which, in community
	5	hould be Offered	l Should r	ot be Offered
	Pre-professional			000000000000000000000000000000000000000
	Semi-professional			
	Vocational			
	Adult			
4.	In organizing agricultuathose without agricultuation, should not the order of developmentist.	ral programs, wh rmally be offere	ich type of	program, in
	Pre-professional	Manage .		
	Semi-professional			
	Vocational			
	Adult			
5∙	Please indicate by a che or expand agricultural of	eck the areas in curriculums in t	which you p he next thre	olan to add oe years.
		1 Year	2 Years	1 2 %
	Pre-professional	1 Teat	2 lears	3 Years
	Semi-professional			
	Vocational			
	Adult			
6.	Who is responsible for the pansion of agricultural 1	he development, programs in your	revision, a	nd/or ex- n? (Title)



8.	Are the agricultural programs organized as (a) separate department, (b) with another department, (c) interdisciplinary program, (d) other
9.	If it is not organized as a separate department or division, please specify the area or areas of which it is a part.
10.	Are some cour es taken by students in all three types of programs? YesNo
11.	Agricultural programs are offered on a (please check) full time, part time, eveningbasis.
12.	The institution operates on a quarter system, semester system, summer session
13.	Would you please enclose a copy of your current catalogue with this return?
14.	What degrees and/or certificates do you award upon completion of the various types of programs?
	Pre-professional
	Semi-professional
	Vocational
	Adult
15.	Additional comments regarding programs and curriculums:

I. RELATIONSHIPS BETWEEN STATE AGENCIES AND COMMUNITY COLLEGES

1. There are a number of relationships that may exist between the State Department of Vocational Education and the community college. Some of these are listed below. If the relationship exists and is satisfactory in your opinion, check column 1. If if does not exist but you think it should, check column 2. If the relationship is present but you think it should not exist, check column 3. Please feel free to add any others you deem appropriate.



	Exists, Satisfactory	Does Not Exist But Should	Exists But Should Not
Available upon request for advice and consultation Give approval of the initial program Responsible for inspection and accreditation Responsible for supervision of program			
Coordinate all programs in the state Certification of in- structional staff Administer financial			
support of programs Assist in securing qualified staff Provide in-service edu- cation for staff			
Other (Please specify)			
2. Additional comments:			
Application of production of production of the p			A

J. PROBLEMS OF ESTABLISHMENT AND OPERATION OF AGRICULTURAL PROGRAMS

1. Tisted below are a number of problems which may be encountered in establishing programs in agriculture. Please check each item as to the degree of difficulty it presents in your opinion.

		Great	Consid- erable	Some	Little	None
a.	Procuring adequate financial support					
b.	Securing suitable facilities					
c.	Securing qualified faculty					
d.	Certification of staff					
e.	Determining admission standards for students	AAABANAN CANADAA BAAN BITT DA M	a marine and a stance to stage, \$10000, making [(A) as and			



			Consid-		المراجعين الأهم والمناطق المجاهد	
	•	Great	erable	Some_	Little	None
f.	Securing student enrollment					
g.	Acquiring public					
h.	understanding Developing appropriate					
	curriculum	*******************				
i.	Standardization of curriculum titles and					
_	content within the state	-				
j.	Coordination of pro-					
1.	grams withing the state					
	Facilities	***************************************				
1.	Maintaining high quality of in-					
	struction					A Paragraphic Para
m.	Obtaining instructional materials	****				
n.	Awarding of degrees and certificates					
0.	Placement of graduates					
p.	Plans for expansion of					
	the program	الاستوالي				
q.	Other (Please specify)				·	
			<u> </u>	 		
						
						مثبتات مسمعا يبيها
	2. Please check the beloculty they present in it has been establish	operati				
		-				
		. The	Consid-		w	4.7
		Great	erable	Some	little	None
a.	Procuring adequate					
b.	financial support Maintaining suitable					
c.	facilities Securing qualified					
d.	faculty Certification of					
Θ.	staff Determining admission					
_	standards for students			 		
f.	Maintaining student enrollment					
						



Maintaining public understanding Developing appropriate curriculum Standardization of curriculum titles and content within the state state Coordination of programs within the state Effective use of facilities Meintaining high quality of instruction Obtaining instructional materials Mavarding of degrees and certificates Plans for expansion of the program Transferring credit to four-year institutions The same course being taken by students of all three types of programs Others (Please specify) 3. Additional comments:			Great	Consider- able	Some	[ittle	None
Developing appropriate curriculum Standardization of curriculum titles and content within the state Coordination of pro- grams within the state Effective use of facilities Maintaining high quality of instruction Obtaining instructional materials Awarding of degrees and certificates Placement of graduates Plans for expansion of the program Transferring credit to four-year institu- tions The same course being taken by students of all three types of pro- grams Others (Please specify)	5 •						
Standardization of curriculum titles and content within the state j. Coordination of pro- grams within the state k. Effective use of facilities l. Maintaining high quality of instruction Obtaining instructional materials m. Awarding of degrees and certificates p. Plans for expansion of the program q. Transferring credit to four-year institu- tions r. The same course being taken by students of all three types of pro- grams s. Others (Please specify)	1.	Developing appropriate				1 00	
grams within the state Effective use of facilities Maintaining high quality of instruction Obtaining instructional materials Awarding of degrees and certificates Placement of graduates Plans for expansion of the program Transferring credit to four-year institu- tions The same course being taken by students of all three types of programs Others (Please specify)	١.	Standardization of curriculum titles and content within the state					
facilities Maintaining high quality of instruction Mobtaining instructional materials Marding of degrees and certificates Placement of graduates Plans for expansion of the program Transferring credit to four-year institu- tions The same course being taken by students of all three types of programs Others (Please specify)	j•	grams within the state					
quality of instruction Obtaining instructional materials Awarding of degrees and certificates Placement of graduates Plans for expansion of the program Transferring credit to four-year institu- tions The same course being taken by students of all three types of pro- grams Others (Please specify)	٠,		الاركسان والمارية				
m. Obtaining instructional materials n. Awarding of degrees and certificates Placement of graduates Plans for expansion of the program Transferring credit to four-year institu- tions r. The same course being taken by students of all three types of pro- grams S. Others (Please specify)	l.	Meintaining high quality of instruction	المحادثين				
Awarding of degrees and certificates Placement of graduates Plans for expansion of the program Transferring credit to four-year institutions The same course being taken by students of all three types of programs Solutions Others (Please specify)	n.	Obtaining instructional					
Placement of graduates Plans for expansion of the program Transferring credit to four-year institu- tions The same course being taken by students of all three types of pro- grams Others (Please specify)	ı.	Awarding of degrees and					<u> </u>
the program Transferring credit to four-year institu- tions The same course being taken by students of all three types of pro- grams Others (Please specify)	•	Placement of graduates					
Transferring credit to four-year institu- tions The same course being taken by students of all three types of pro- grams Others (Please specify)		Plans for expansion of					
r. The same course being taken by students of all three types of programs s. Others (Please specify)	4•	Transferring credit to four-year institu-					
s. Others (Please specify)	r.	The same course being taken by students of all three types of pro-					
3. Additional comments:	s.	grams Others (Please specify)					
3. Additional comments:			-				
3. Additional comments:							J
		3. Additional comments:					
					المساهوبية الأروم		

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In addition a listing of studies completed in Ohio pertaining to post-secondary education may be found in Appendix A.

